AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-20. (canceled)

21. (previously presented) A material for medical or veterinary usage, for the realization of endo-bone implants, for dental implants, or for the realization of bone prostheses, which material is in the form of a molded piecework, made of 65% to 90% by weight of a polymer biocompatible binder and 10% to 35% by weight calcium phosphate, said material having a surface provided with emerging crystallized calcium phosphate.

22. (previously presented) A material according to claim 21, wherein the calcium phosphate enables addition of calcium and of phosphorus, and the calcium phosphate is derived from calcium hydroxyapatite and/or dicalcic or tricalcic phosphate.

23. (previously presented) A material according to claim 21, which comprises a binder in the form of a thermoplastic polymer.

24. (previously presented) A material according to claim 23, which comprises a binder in the form of a thermoplastic polymer or PEEK (polyetheretherketon).

25. (previously presented) A material according to claim 21, which comprises a binder in the form of a natural polymer or cellulose.

26. (previously presented) A material according to claim 21, which comprises a zeolite or oxide compound selected from the group consisting of TiO_2, SiO_2, Al_2O_3 and ZrO_2.

27. (previously presented) A material device according to claim 21, which also comprises complementary component(s) in the form of calcium hydroxyapatite and/or dicalcic or tricalcic phosphate, and is associated with at least one zeolite or an oxide.

28. (previously presented) A method of preparation of material for medical or veterinary usage, which material is in the form of a molded piecework, made of a polymer biocompatible binder and at least one compound for adding calcium and phosphorus, which method comprises:

mixing homogeneously 65% to 90% by weight of polymer biocompatible binder and 10% to 35% by weight of calcium phosphate,

subjecting the mixture thus obtained to a molding operation,

performing, first, one or several surface pickling and decontamination operations on the molded piecework, and second, a sterilizing operation by autoclave, such that the surface of said molded piecework is provided with emerging calcium phosphate, and

packaging aseptically said decontaminated piecework.

29. (previously presented) A method according to claim 28, wherein the surface pickling operation is conducted in at least one bath in a solution subjected to ultrasound.

30. (previously presented) A method according to claim 28, wherein the surface pickling operation is conducted in at least one pickling product bath subjected to ultrasound.

31. (previously presented) A method according to claim 28, wherein the surface treatment is conducted by passing the molded material through different successive baths subjected to ultrasound.

32. (previously presented) A method according to claim 28, wherein the surface treatment is conducted by passing the molded material through at least an acid bath of hydrochloric acid or sulphuric acid.

33. (previously presented) A method according to claim 28, wherein the surface treatment is conducted by passing the material through at least one acetone bath.

34. (previously presented) A method according to claim 28, wherein the surface treatment is conducted by passing the material through at least one hydrogen peroxide bath.

35. (previously presented) A method according to claim 28, wherein the surface treatment is conducted by passing the material through at least one sodium hypochlorite bath.

36. (previously presented) A method according to claim 28, which also comprises subjecting the molded part to a decontamination treatment by means of baths conducting the surface pickling/decontamination treatment, associated with at least one complementary bath of decontaminating product.

37. (previously presented) A method according to claim 28, wherein the surface pickling and decontamination operations

include passing the molded part through successive baths of hydrochloric or sulphuric acid, acetone, hydrogen peroxide, sodium hypochlorite and hypochlorite disinfectant product(s), subjected to ultrasound, separated by operations consisting in water rinsing or passing through water baths subjected to ultrasound.

38. (previously presented) A method according to claim 28, which also comprises subjecting the molded part to a sterilization operation by autoclave after passing through at least one solution bath subjected to ultrasound.

39. (previously presented) An application of the material according to claim 21 for the production of endo-bone implants, or dental implants.

40. (previously presented) An application of the material according to claim 21 for the production of bone prostheses.

41. (new) A method of preparation of a material for medical or veterinary usage, the material being in a form of a molded piecework, made of a polymer biocompatible binder and at least one compound for adding calcium and phosphorus, comprising:

mixing homogeneously 65% to 90% in weight of a polymer biocompatible binder and 10% to 35% in weight of calcium phosphate;

subjecting the mixture thus obtained to a molding operation;

performing, first, one or several surface pickling and decontamination operations on the molded piecework and, second, a sterilization operation by autoclave; and

conditioning aseptically said decontaminated piecework,

wherein the surface pickling and decontamination operations include passing the molded part in successive baths of hydrochloric or sulfuric acid, acetone, hydrogen peroxide, sodium hypochlorite and disinfectant product(s), subjected to ultrasounds, separated by operations consisting in water rinsing or passing in water baths subjected to ultrasounds, such as the surface of said molded piecework is provided with emerging crystallized calcium phosphate.